Abstract

Modulation and demodulation of OFDM signals

5   The invention relates to a method for modulating sub-carrier
symbols to an intermediate-frequency OFDM signal having even
and odd samples, including following steps:
- transforming a number N of the sub-carrier symbols to pre-
processed sub-carrier symbols;
10   - performing a complex inverse discrete Fourier transformation
(IDFT) on the pre-processed sub-carrier symbols to generate
complex output symbols; and
- transforming the complex output symbols to the intermediate-
frequency OFDM signal,
15   wherein the sub-carrier symbols are transformed so that the
even and odd samples of the intermediate-frequency OFDM signal
are given by real and imaginary parts of the complex output
symbols.

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